

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

SECTION 1: Identification

1.1 Product identifier

Trade name **Ammonia Ampoule Powder**
SDS Identifier **AM0384SS**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses laboratory and analytical use

1.3 Details of the supplier of the safety data sheet

AquaPhoenix Scientific
860 Gitts Run Road
Hanover PA 17331
United States

Telephone: (866) 632-1291
e-mail: info@aquaphoenixsci.com
Website: <https://www.aquaphoenixsci.com/>

1.4 Emergency telephone number

Emergency information service ChemTel Inc.: 1-800-255-3924, +01-813-248-0585

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200, Rev. 2024)

Hazard class	Category	Hazard class and category	Hazard statement
acute toxicity (oral)	5	Acute Tox. 5	H303
acute toxicity (dermal)	5	Acute Tox. 5	H313
acute toxicity (inhal.)	5	Acute Tox. 5	H333
skin corrosion/irritation	1	Skin Corr. 1	H314
serious eye damage/eye irritation	1	Eye Dam. 1	H318
reproductive toxicity	1A	Repr. 1A	H360
specific target organ toxicity - single exposure	2	STOT SE 2	H371
hazardous to the aquatic environment - acute hazard	3	Aquatic Acute 3	H402
hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Immediate effects can be expected after short-term exposure. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200, Rev. 2024)

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

- Signal word danger

- Pictograms

GHS05, GHS08



- Hazard statements

H303+H313+H333

May be harmful if swallowed, in contact with skin or if inhaled.

H314

Causes severe skin burns and eye damage.

H360

May damage fertility or the unborn child.

H371

May cause damage to organs.

H412

Harmful to aquatic life with long lasting effects.

- Precautionary statements

P203

Obtain, read and follow all safety instructions before use.

P260

Do not breathe dusts or mists.

P264+P265

Wash hands thoroughly after handling. Do not touch eyes.

P270

Do not eat, drink or smoke when using this product.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P317

IF SWALLOWED: Get medical help.

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P317

IF ON SKIN: Get medical help.

P302+P361+P354

IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

P304+P317

IF INHALED: Get medical help.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P354+P338

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P311

IF exposed or concerned: Call a POISON CENTER/doctor.

P316

Get emergency medical help immediately.

P318

IF exposed or concerned, get medical advice.

P321

Specific treatment (see on this label).

P363

Wash contaminated clothing before reuse.

P405

Store locked up.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

Lithium Hydroxide, Sodium Salicylate, USP Grade, sodium citrate dihydrate, Dichloroisocyanuric Acid

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
sodium citrate dihydrate	CAS No 6132-04-3	57.2	Acute Tox. 5 / H313	
Sodium Salicylate, USP Grade	CAS No 54-21-7	17.37	Acute Tox. 4 / H302 Acute Tox. 5 / H313 Eye Irrit. 2 / H319 Repr. 2 / H361d	 
Sodium Tartrate Dihydrate	CAS No 6106-24-7	16		
Lithium Hydroxide	CAS No 1310-65-2	6.763	Acute Tox. 4 / H302 Acute Tox. 5 / H313 Acute Tox. 3 / H331 Skin Corr. 1 / H314 Eye Dam. 1 / H318 Repr. 1A / H360 STOT SE 1 / H370 Aquatic Acute 3 / H402	  
Sodium Nitroferricyanide Dihydrate	CAS No 13755-38-9	1.367		
Dichloroisocyanuric Acid	CAS No 2893-78-9	0.521	Ox. Sol. 2 / H272 Acute Tox. 5 / H303 Acute Tox. 2 / H330 Skin Corr. 1A / H314 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	   
EDTA, Disodium Salt, Dihydrate	CAS No 6381-92-6	0.408	Acute Tox. 5 / H303 Acute Tox. 4 / H332 STOT RE 2 / H373 Aquatic Acute 3 / H402	 
3-Nitrophenol	CAS No 554-84-7	0.367	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT RE 2 / H373	  

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Rinse skin with water/shower.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

Medical attention may be necessary if the product gets into the eyes or on the skin.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, ABC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Deposited combustible dust has considerable explosion potential.

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Wear impact- and splash-resistant eyewear.

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

Control of the effects

Protect against external exposure, such as

heat, high temperatures, light, UV-radiation/sunlight

- Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	particulate not otherwise regulated		REL							appx-D	NIOSH REL
US	particulates not otherwise classified (PNOC)		PEL		15					dust	29 CFR 1910.1000
US	particulates not otherwise classified (PNOC)		PEL	1,765						partml, dust	29 CFR 1910.1000
US	particulates not otherwise classified (PNOC)		PEL	529.5						partml, r, dust	29 CFR 1910.1000
US	particulates not otherwise classified		PEL		5					r	29 CFR 1910.1000

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
	fied (PNOC)										00
US	Particulates not otherwise regulated		PEL (CA)		10					dust	Cal/OSH A PEL
US	Particulates not otherwise regulated		PEL (CA)		5					r	Cal/OSH A PEL

Notation

appx-D	see Appendix D - Substances with No Established RELs
Ceiling-C	ceiling value is a limit value above which exposure should not occur
dust	as dust
part/ml	particles/ml
r	respirable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Sodium Salicylate, USP Grade	54-21-7	DNEL	1.32 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Sodium Salicylate, USP Grade	54-21-7	DNEL	0.373 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lithium Hydroxide	1310-65-2	DNEL	10 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Lithium Hydroxide	1310-65-2	DNEL	30 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Lithium Hydroxide	1310-65-2	DNEL	41.35 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lithium Hydroxide	1310-65-2	DNEL	100 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Dichloroisocyanuric Acid	2893-78-9	DNEL	8.11 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Dichloroisocyanuric Acid	2893-78-9	DNEL	2.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
EDTA, Disodium Salt, Dihydrate	6381-92-6	DNEL	1.5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
EDTA, Disodium Salt, Dihydrate	6381-92-6	DNEL	3 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
EDTA, Disodium Salt, Dihydrate	6381-92-6	DNEL	1.5 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
EDTA, Disodium Salt, Dihydrate	6381-92-6	DNEL	3 mg/m³	human, inhalatory	worker (industry)	acute - local effects

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Sodium Salicylate, USP Grade	54-21-7	PNEC	41.3 µg/l	aquatic organisms	freshwater	short-term (single instance)
Sodium Salicylate, USP Grade	54-21-7	PNEC	4.13 µg/l	aquatic organisms	marine water	short-term (single instance)
Sodium Salicylate, USP Grade	54-21-7	PNEC	0.167 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Sodium Salicylate, USP Grade	54-21-7	PNEC	16.7 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Sodium Salicylate, USP Grade	54-21-7	PNEC	9.19 µg/kg	terrestrial organisms	soil	short-term (single instance)
Lithium Hydroxide	1310-65-2	PNEC	2.3 mg/l	aquatic organisms	freshwater	short-term (single instance)
Lithium Hydroxide	1310-65-2	PNEC	0.23 mg/l	aquatic organisms	marine water	short-term (single instance)
Lithium Hydroxide	1310-65-2	PNEC	79.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lithium Hydroxide	1310-65-2	PNEC	153 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Lithium Hydroxide	1310-65-2	PNEC	15.3 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Lithium Hydroxide	1310-65-2	PNEC	28.22 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dichloroisocyanuric Acid	2893-78-9	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
Dichloroisocyanuric Acid	2893-78-9	PNEC	1.52 mg/l	aquatic organisms	marine water	short-term (single instance)
Dichloroisocyanuric Acid	2893-78-9	PNEC	0.59 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dichloroisocyanuric Acid	2893-78-9	PNEC	7.56 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dichloroisocyanuric Acid	2893-78-9	PNEC	0.756 mg/kg	terrestrial organisms	soil	short-term (single instance)
EDTA, Disodium Salt, Dihydrate	6381-92-6	PNEC	2.5 mg/l	aquatic organisms	freshwater	short-term (single instance)
EDTA, Disodium Salt, Dihydrate	6381-92-6	PNEC	0.25 mg/l	aquatic organisms	marine water	short-term (single instance)
EDTA, Disodium Salt, Dihydrate	6381-92-6	PNEC	50 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
EDTA, Disodium Salt, Dihydrate	6381-92-6	PNEC	1.1 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Recommended: Disposable neoprene gloves, 0.1 - 0.2 mm thick, 15-120 minute breakthrough times. In the case of wanting to use the gloves again, clean them before taking off and air them well.

- Other protection measures

Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Product description: See website or catalog for details.

Physical state	solid (powder)
Color	white - orange
Odor	odorless
Melting point/freezing point	252 °C
Boiling point or initial boiling point and boiling range	233.3 °C at 967.3 hPa
Evaporation rate	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not relevant (solid)
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	>252 °C
pH (value)	not applicable
Kinematic viscosity	not relevant
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
---	-----------------------------------

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Vapor pressure	98.92 kPa
----------------	-----------

Density and/or relative density

Density	not determined
Relative vapour density	not relevant (solid)

Particle characteristics	no data available
--------------------------	-------------------

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200, Rev. 2024)

Acute toxicity

May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled.

- Acute toxicity estimate (ATE)

Oral	2,072 mg/kg
Dermal	>2,459 mg/kg
Inhalation: dust/mist	>6.47 mg/l/4h

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
sodium citrate dihydrate	6132-04-3	dermal	>2,000 mg/kg
Sodium Salicylate, USP Grade	54-21-7	oral	500 mg/kg
Sodium Salicylate, USP Grade	54-21-7	dermal	>2,000 mg/kg
Lithium Hydroxide	1310-65-2	oral	500 mg/kg
Lithium Hydroxide	1310-65-2	dermal	>2,000 mg/kg
Lithium Hydroxide	1310-65-2	inhalation: dust/mist	0.5 mg/l/4h
Dichloroisocyanuric Acid	2893-78-9	oral	2,094 mg/kg
Dichloroisocyanuric Acid	2893-78-9	inhalation: dust/mist	>0.27 mg/l/4h
EDTA, Disodium Salt, Dihydrate	6381-92-6	oral	2,800 mg/kg
EDTA, Disodium Salt, Dihydrate	6381-92-6	inhalation: dust/mist	1.5 mg/l/4h
3-Nitrophenol	554-84-7	oral	328 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

May damage the unborn child. May damage fertility.

Specific target organ toxicity - single exposure

May cause damage to organs.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
sodium citrate dihydrate	6132-04-3	LC50	18,000 – 32,000 mg/l	guppy (Poecilia reticulata)	96 h
sodium citrate dihydrate	6132-04-3	EC50	5,600 – 10,000 mg/l	water flea (Daphnia)	48 h
Lithium Hydroxide	1310-65-2	LC50	109 mg/l	fish	96 h
Lithium Hydroxide	1310-65-2	EC50	29.4 mg/l	aquatic invertebrates	24 h
Lithium Hydroxide	1310-65-2	ErC50	153.4 mg/l	algae	72 h
Dichloroisocyanuric Acid	2893-78-9	LC50	0.24 mg/l	fish	96 h
Dichloroisocyanuric Acid	2893-78-9	EC50	0.17 mg/l	aquatic invertebrates	48 h
Dichloroisocyanuric Acid	2893-78-9	EbC50	2,700 mg/l	algae	72 h
Dichloroisocyanuric Acid	2893-78-9	ErC50	>5,000 mg/l	algae	72 h
EDTA, Disodium Salt, Dihydrate	6381-92-6	LC50	>116 mg/l	fish	96 h
EDTA, Disodium Salt, Dihydrate	6381-92-6	EC50	>114 mg/l	aquatic invertebrates	48 h
EDTA, Disodium Salt, Dihydrate	6381-92-6	ErC50	>60 mg/l	algae	72 h

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Lithium Hydroxide	1310-65-2	EC50	180.8 mg/l	microorganisms	3 h
Dichloroisocyanuric Acid	2893-78-9	EC50	2,600 mg/l	aquatic invertebrates	21 d

12.2 Persistence and degradability

Degradability of components

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Sodium Salicylate, USP Grade	54-21-7	oxygen depletion	88.19 %	28 d		ECHA
Sodium Tartrate Dihydrate	6106-24-7	oxygen depletion	>71 – <80 %	14 d		ECHA
Dichloroisocyanuric Acid	2893-78-9	oxygen depletion	2 %	28 d		ECHA
EDTA, Disodium Salt, Dihydrate	6381-92-6	oxygen depletion	77 %	56 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Sodium Salicylate, USP Grade	54-21-7		-1.594 (25 °C)	
Sodium Tartrate Dihydrate	6106-24-7		-4.5 (20 °C)	
EDTA, Disodium Salt, Dihydrate	6381-92-6	1.8	-4.3 (pH value: 4.5, 25 °C)	
3-Nitrophenol	554-84-7		2	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number

DOT	UN 1759
IMDG-Code	UN 1759
ICAO-TI	UN 1759

14.2 UN proper shipping name

DOT	Corrosive solid, n.o.s.
IMDG-Code	CORROSIVE SOLID, N.O.S.
ICAO-TI	Corrosive solid, n.o.s.
Technical name (hazardous ingredients)	Lithium Hydroxide, Dichloroisocyanuric Acid

14.3 Transport hazard class(es)

DOT	8
IMDG-Code	8
ICAO-TI	8

14.4 Packing group

DOT	II
IMDG-Code	II
ICAO-TI	II

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Other relevant information

Shipping container markings and labels, received from AquaPhoenix, may vary from the above information. Products that are regulated for transport will be packaged by AquaPhoenix as Dangerous Goods in Excepted Quantities according to IATA, US DOT, and IMDG regulations. AquaPhoenix may also elect to ship certain products as UN 3316 Chemical Kit, Hazard Class 9, Packing Group II or III. In case of reshipment, it is the responsibility of the shipper to determine appropriate labels and markings in accordance with applicable transportation regulations.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration	UN1759, Corrosive solid, n.o.s., (Lithium Hydroxide, Dichloroisocyanuric Acid, mixture), 8, II
Reportable quantity (RQ)	27,248 lbs (12,371 kg) (3-Nitrophenol)
Danger label(s)	8



Special provisions (SP)	128, IB8, IP2, IP4, T3, TP33
ERG No	154

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	-
Danger label(s)	8



Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
EmS	F-A, S-B
Stowage category	A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s)	8
-----------------	---



Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 kg

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)

not all ingredients are listed (ACTIVE)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
3-Nitrophenol	554-84-7		1	100 (45,4)

Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Dichloroisocyanuric Acid	2893-78-9		R2
3-Nitrophenol	554-84-7		

Legend

R2 Reactive - Second Degree

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Category	Rating	Description
Physical hazard	1	material that is normally stable but can become unstable (self-react) at high temperatures and pressures. Material may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard	W	material that can react with water with some release of energy, but not violently

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	not all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	not all ingredients are listed

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Legend

REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory
TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

Abbr.	Descriptions of used abbreviations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
Ox. Sol.	Oxidizing solid
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").
 Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG).
 Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
 Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Safety Data Sheet

AM0384SS

Version number: 2.3

Revision: 2026-01-06

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H333	May be harmful if inhaled.
H360	May damage fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.